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Alexandria, VA 22313-1450	
Inventor(s): WCA DOTTONE	· .
•	2 PURIFYING NITRIC OXIDE
Enclosed is a disclosure of the above-titled invention consisting sheets of drawings. A check or money order in the fee (37 CFR 1.21(c)).	g ofsheets of description and le amount ofis enclosed to cover :
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A Method for purifying Nitric Oxide By Luca D'Ottone 251 Galen Dr. 305 E Key Biscayne, Fi, 33149

(1) Background

in 1998, while performing enemical research regarding the reactivity of Nitric Oxide toward the hydroxyl radical, discovered, reduced to practice and perfocuous nature and an apparatus for the purification of gaseous Nitric Oxide.

Nitric Oxide is a gas having no appreciable grous vector in the UV visible region. Most common impusities for MO are NO_2 and other acidic oxides.

(2) Apparatus

The Apparatus consist in a series of two filters connected by an inert tubing system, and connected on one side to a collection tank and or another side to the source of impure nitric oxide.

The first filter is kept at a temperature below 0 $^{\circ}\mathrm{C}$ (T<273.15 K) by a thermostatic bath. Usually is cooled at the temperature of the dry-ire methanol slush.

The first filter is composed by a mixture of hydroxides of alkali and earth alkali metals. Said filter may be ASCARITE (registered trademark).

The second filter is a standard molecular sieve.

I found this apparatus extremely effective and convenient over the prior art.

(3) Method

The method consist in parsing the impure mitric oxide gas from the storage tank trough the first and the second filter, and collecting it in a collection bulb usually filled out at a pressure below atmospheric pressure, to avoid possible intake of oxygen gas.

(4) Results

I found the use of said method and said apparatus extremely convenient. I personally tested the purity of the nitric oxide with an optical multi-channel apparatus, and the final product was an extremely retined nitric oxide

gas. Impurities were estimated to be less that I part per million in NO.

(5) References

US patents

US patent Published aplications

20020056289

Other references

Hughes, E.E. J. Chem. Phys., 1961, 35, 1531.

(5) Notarization

THIS SECTION IS FOR NOTARIZATION

PRINT SIGNATORY'S FULL NAME

SIGNATURE (as it will appear on documents)

(NOTARY)I, Millia Contale Las a notary public in the State of Florida, certify under the pains and penalty of perjury that I witnessed the signature of the aforementioned signatory Luca D'Ottone, and the individual's identity was verified, on this date: March 3, 2004.

My commission expires on:

Ana Milena Gonzalez Commission #DD265827 Expires: Nov 09, 2007

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